

REMARKS

Applicants respectfully request reconsideration of this application in light of the above amendments and the following remarks that are in response to the final office, mailed 04/27/10, and the advisory action mailed June 30, 2010.

Claims Status

Claims 15, 18, 30, 33, 36 and 39 have been amended. Claims 1-14, 17, 19, 22-24, 27-29, 32, 34, 38 and 40 have been cancelled, without prejudice. New claims 48-50 have been added. Therefore, claims 15, 18, 20-21, 25-26, 30-31, 33, 35-37, 39 and 41-50 remain pending for examination.

35 U.S.C. § 103 Rejection

Claims 15-16, 20-21, 30-31, 35-37 and 41 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Viswanath, et al., U.S. Patent No. 7,206,827 (“*Viswanath*”) in view of Jung, et al., U.S. Patent No. 6,308,208 (“*Jung*”) and further in view of Gorman, et al., U.S. Patent No. 6,795,791 (“*Gorman*”).

Claim 15 recites:

A multi-service monitoring system comprising:

computer server systems having a cluster of application servers communicatively coupled on a computer network to serve software applications over the computer network to a plurality of computer client systems, wherein each computer server system including an application server having:

an administration service to generate runtime management beans ("MBeans"), wherein each runtime MBean is associated with one or more resources such that each runtime MBean serves as an intermediary between its one or more associated resources and a corresponding monitor MBean of monitor MBeans that seeks monitoring data relating to the one or more resources, each runtime MBean collecting monitoring data relating to the one or more associated resources and reporting the monitoring data to the corresponding monitor MBean; and

a monitor service in communication with the administration service, the monitor service to generate the monitor MBeans, each monitor MBean being directly mapped to a corresponding runtime MBean and indirectly mapped to a resource associated with the corresponding runtime MBean, and each monitor MBean having a resource identifier to identify its corresponding runtime MBean. (emphasis added)

Applicants respectfully disagree with the Examiner's characterization of the references and the pending claims. For example, in the recently-mailed advisory action, the Examiner assert that *Gorman* discloses a direct mapping between runtime MBeans and monitor MBeans and an indirect mapping between monitor MBeans and resources. (see *Advisory Action*, 06/30/10, page 2). Applicants respectfully disagree. *Gorman* does not disclose runtime MBeans; instead, the cited reference discloses a conventional MBean server 106 that is directly connected to a monitor 122 and a JMX resource 108. (see *Gorman*, Figure 1; see also col. 3, lines 23-35). *Gorman's* MBean server does not represent runtime MBeans where each monitor MBean is directly mapped to a corresponding runtime MBean and indirectly mapped to a resource associated with the corresponding runtime MBean and each runtime MBean is associated with one or more resources such that each runtime MBean serves as an intermediary between its one or more associated resources and a corresponding monitor MBean that seeks monitoring data relating to the one or more resources as recited by claim 1.

Regarding other cited references, *Viswanath* discloses "one or more components of the administration framework from meta-information describing persistently stored configuration information." (*Viswanath*, abstract). *Viswanath* further discloses "the meta-information may be accessed by generator mechanism to generate beans. Beans may provide a bean representation of the configuration data of the backend persistent

store.” (*Viswanath*, col. 10, ln. 31-35; emphasis added). *Viswanath* further discloses “generate a bean for each corresponding element in meta-information. Bean may represent every element in the meta-information file.” (*Viswanath*, col. 10, ln. 51-54; emphasis added).

Viswanath merely mentions “beans” and “bean representation”, but it does not teach or reasonably suggest employing two types of MBeans, such as runtime MBeans and monitor MBeans to perform resource monitoring as recited by claim 15. As the Examiner acknowledges, *Viswanath* does not explicitly disclose “each runtime MBean collecting monitoring data for its one or more resources and reporting the monitoring data to a corresponding monitor MBean . . . each monitor [M]Bean having a resource identifier to identify its corresponding runtime MBean” (*Office Action*, mailed 10/27/09, pg. 3). However, the Examiner relies on *Jung* for the alleged support.

Jung relates to an “observer-observed relationship” in which a cell refers to a database server (such as a computer system) that is construed as a “master resource” to “‘observe’ other cells or it may be observed by another cell” (*Jung*, col. 2, ln. 5-25; emphasis added). Stated differently, using *Jung*’s technique, a master computer system observes servant computers system and, in some cases, even the master computer system is observed by another computer system. Note that *Jung* does not mention or employ any type of beans and, consequently, does not teach or reasonably suggest “each runtime MBean collecting monitoring data for its one or more associated resources and reporting the monitoring data to a corresponding monitor MBean” and further “each monitor MBean being directly mapped to a corresponding runtime MBean and indirectly mapped to a resource associated with the corresponding runtime MBean, and each

monitor MBean having a resource identifier to identify its corresponding runtime MBean” as recited by claim 15 (emphasis added).

Viswanath merely refers to beans, but does not teach or reasonably suggest employing MBeans (specifically, runtime and monitor MBeans) for monitoring tasks as recited by claim 15, while *Jung* neither employs nor anticipates employing any type of beans. Hence, *Jung* does not make up for the deficiencies of *Viswanath*.

The Examiner acknowledges certain deficiencies of *Viswanath* and *Jung*, such as that they do not “explicitly disclose the Beans are MBeans, wherein each monitor MBean being directly mapped to a corresponding runtime MBean and indirectly mapped to a resource associated with the corresponding MBean and its associated runtime MBean”, but relies on *Gorman* for the alleged support (*Office Action*, mailed 04/27/10, pg. 4; see *Advisory Action*, mailed 06/30/10, page 2). Applicants respectfully disagree with the Examiner’s characterization of *Gorman*.

As aforementioned, *Gorman* discloses a conventional MBean server 106 on the agent side 102. As shown in *Figure 1* of *Gorman*, monitor 122, query 124, and JMX resource 108 are all **directly connected** to MBean server 106 (see *Gorman*, Figure 1, col. 3, ln. 23-29). *Gorman*’s **direct connection** of monitor, query, and JMX resource with their MBean server is **contrary** to each monitor MBean being directly mapped to a corresponding runtime MBean and indirectly mapped to a resource associated with the corresponding runtime MBean as recited by claim 15. The cited references, neither individually nor when combined, teach or reasonably suggest each runtime MBean is associated with one or more resources such that each runtime MBean serves as an intermediary between its one or more associated resources and a corresponding monitor

MBean seeking monitoring data relating to the one or more resources as recited by claim 1. Accordingly, for at least reasons set forth above, Applicants respectfully request the withdrawal of the rejection of claim 15 and their dependent claims.

Claims 30 and 36 contain limitations similar to those of claim 15. Accordingly, for at least reasons set forth above with reference to claim 15, Applicants respectfully request the withdrawal of the rejection of claims 30 and 36 and their dependent claims

Claims 18, 33 and 39 stand rejected under 35 U.S.C. §103(a) as being unpatentable over *Viswanath, Jung and Gorman* as applied to claim 15, 30 and 36, respectively above, in view of Ismael, et al., U.S. Patent No. 6,061,721 ("*Ismael*").

Claims 18, 33 and 39 depend from one of claims 15, 30 and 36 and thus include all the limitations of the corresponding base claim. Accordingly, for at least the reasons set forth above with respect to claim 15 and *Viswanath, Jung and Gorman*. Applicants respectfully request the withdrawal of the rejection of claims 18, 33 and 39.

Claims 25-26 are rejected under 35 U.S.C. §103(a) as being unpatentable over *Viswanath, Jung and Gorman* as applied to claim 15 above, in view of Haller, et al., U.S. Patent Publication No. 2004/0244001 ("*Haller*").

Claims 25-26 depend from claim 15 and thus include all the limitations of its corresponding base claim. Accordingly, for at least the reasons set forth above with respect to claim 15 and *Viswanath, Jung and Gorman*, Applicants respectfully request the withdrawal of the rejection of claims 25-26.

New Claims

New claims 48-50 depend from one of independent claims 15, 30 and 36.

Accordingly, for at least the reasons set forth above with respect to claim 15, Applicants respectfully submit that claims 48-50 are allowable over the cited references.

Conclusion

In light of the foregoing, reconsideration and allowance of the claims is hereby earnestly requested.

Invitation for a Telephone Interview

The Examiner is requested to call the undersigned at (303) 740-1980 if there remains any issue with allowance of the case.

Request for an Extension of Time

Applicant respectfully petitions for an extension of time to respond to the outstanding Office Action pursuant to 37 C.F.R. § 1.136(a) should one be necessary. Please charge our Deposit Account No. 02-2666 to cover the necessary fee under 37 C.F.R. § 1.17(a) for such an extension.

Charge our Deposit Account

Please charge any shortage to our Deposit Account No. 02-2666.

Respectfully submitted,

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